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| <p>FORM HDP-1449 (Based on Form PTO-1449)</p> <p>PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE CITATION</p> <p>(Use several sheets if necessary)</p> <p>Sheet 1 of 5</p> | ATTORNEY DOCKET NO. | APPLICATION NO. |
| | 9919-000002/COC | 10/668,708 |
| | APPLICANT | |
| | John F. Austermann, III | |
| | FILING DATE | GROUP |
| | September 23, 2003 | 2616 |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|---------------------|-----------------|----------|-------------------------|-----------------|------------------------------|
| Ref. Desig. | Examiner's Initials | Document Number | Date | Name | Class/ Subclass | (If appropriate) Filing Date |
| 1 | | 406,567 | 7/9/1889 | Thomas A. Edison | | 2/19/1886 |
| 2 | | 4,717,896 | 1/5/88 | Martin H. Graham | H03H 7/42 | 3/21/85 |
| 3 | | 4,901,003 | 2/13/90 | David D. Clegg | G01R 19/145 | 12/2/87 |
| 4 | | 5,280,251 | 1/18/94 | Christopher E. Strangio | G01R 31/08 | 11/7/91 |
| 5 | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|---------------------|-----------------|------|---------|-----------------|--------------------|
| Ref. Desig. | Examiner's Initials | Document Number | Date | Country | Class/ Subclass | Translation Yes No |
| 1. | | | | | | |

| OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.) | | |
|--|---------------------|--|
| Ref. Desig. | Examiner's Initials | Documents |
| 1. | | "Introduction To Telephones And Telephone Systems" {Book} (Author: A. Michael Noll, Second Edition, 1991) |
| 2. | | "Implementation And Applications Of DSL Technology" {Book} (Authors: Golden, Dedieu & Jacobsen, Auerbach Publications, 2008) |
| 3. | | "Subscriber Loop Signaling And Transmission Handbook – Analog" {Book} (Author: Whitham D. Reeve, IEEE Press, 1992) |
| 4. | | "Old-Time Telephones! Design, History And Restoration" {Book} (Author: Ralph O Meyer, A Schiffer Book With Price Guide For Collectors, 2005) |
| 5. | | "Telephones – Antiques To Modern" {Book} (Author: Kate E. Dooner, A Schiffer Book for Collectors, 1997) |
| 6. | | "100 Years Of Bell Telephones" {Book} (Author: Richard Mountjoy, A Schiffer Book, 1995) |

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| Ref. Desig. | Examiner's Initials | Documents |
| 7. | | "Universal Service Ordering Codes" (Pages 47-57) {Date Unknown} |
| 8. | | "TIA/EIA-568-A" – "Commercial Building Telecommunications Cabling Standard" (Oct. 6, 1995) |
| 9. | | "TIA/EIA-568-A-1" – "Propagation Delay and Delay Skew Specifications for 100 ohm 4-Pair Cable" (Aug. 20, 1997) |
| 10. | | "TIA/EIA-568-A-2" – "Corrections and Additions to TIA/EIA-568-A" (July 28, 1998) |
| 11. | | "TIA/EIA-568-A-3" – "Addendum No. 3 to TIA/EIA-568-A" (Dec. 10, 1998) |
| 12. | | "TIA/EIA-568-A-4" – "Production Modular Cord NEXT Loss Test Method and Requirements for Unshielded Twisted-Pair Cabling" (Nov. 29, 1999) |
| 13. | | "TIA/EIA-568-A-5" – "Transmission Performance Specifications for 4-Pair 100 ohm Category 5e Cabling" (Jan. 27, 2000) |
| 14. | | "IEEE Std. 802.5c-1991" – "Supplement to Token Ring for Dual Access Method and Physical Layer Specifications" – "Recommended Practice for Dual Ring Operation with Wrapback Reconfiguration" (March 21, 1991) |
| 15. | | "ANSI INCITS 229-1994 (R1999)" – "for Information Systems – Fibre Distributed Data Interface (FDDI) – Station Management (SMT)" (1994) |
| 16. | | "ANSI X3.263-1995" – "for Information Technology" - Fibre Distributed Data Interface (FDDI) – Token Ring Twisted Pair Physical Layer Medium Dependent (TP-PMD)" (1995) |
| 17. | | "ANSI/IEEE Std 802.2" – "IEEE Standard for Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 2: Logical Link Control" (1998 Edition) |
| 18. | | "ISO/IEC 9314-4" – "Information technology – Fibre distributed data interface (FDDI) – Part 4: Single-mode fibre physical layer medium dependent (SMF-PMD)" (First edition 1999-10) |
| 19. | | "ISO/IEC 14709-2" – "Information technology – Configuration of Customer Premises Cabling (CPC) for Applications – Part 2: Integrated Services Digital Network (ISDN) primary rate" (First edition 1998-05) |
| 20. | | "ISO/IEC 8877" – "Information technology – Telecommunications and information exchange between systems – Interface connector and contact assignments for ISDN Basic Access Interface located at reference points S and T" (Second edition 1992-11-15) |

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| OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.) | | |
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| Ref. Desig. | Examiner's Initials | Documents |
| 21. | | "IEEE Std 1802.3-1991" – "Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications" – "Currently Contains Attachment Unit Interface (AUI) Cable (Section 4)" (Aug. 9, 1991) |
| 22. | | "IEEE Std 802-1990" – "IEEE Standards for Local and Metropolitan Area Networks: Overview and Architecture" (Nov. 20, 1990) |
| 23. | | "100 Mb/s data Transmission on UTP and STP Cabling for Demand Priority Networks" (By Hewlett Packard, HP Laboratories Bristol, HPL-94-88, Oct., 1994) |
| 24. | | "Medium Attachment Unit and baseband medium specifications, type 10BASE5" (IEEE 802.3-1985 within IEEE Std 802.3, 2000 Edition) |
| 25. | | "Medium attachment unit and baseband medium specifications, type 10BASE2" (IEEE 802.3a within IEEE 802.3 2000 Edition) |
| 26. | | "Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer and baseband medium, type 100BASE-T4" (within IEEE 802.3u within IEEE Std 802.3, 1998 Edition) |
| 27. | | "Physical signaling, medium attachment, and baseband medium specifications, type 1BASE5" (IEEE 802.3e-1987 within IEEE Std 802.3, 2000 Edition) |
| 28. | | "ANSI/IEEE 802.4-1990" – "Information processing systems – Local area networks – Part 4: Token-passing bus access method and physical layer specifications" (1990) |
| 29. | | "ANSI/IEEE Std 802.5-1985 – ISO/DP 8802/5" – Local area Networks – ANSI/IEEE Standard ISO Draft Proposal – Token Ring Access Method" (1985) |
| 30. | | "ANSI/IEEE Std 802.5-1998E" – Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 5: Token ring access method and Physical Layer specifications" (1998) |
| 31. | | "ITU-T 1.430" – "Integrated Services Digital Network (ISDN) – ISDN User-Network Interfaces" – "Basic User-Network Interface – Layer 1 Specification" (11/95) |
| 32. | | "ANSI X3.166-1990" – "for Information Technology" - Fibre Distributed Data Interface (FDDI) – Token Ring Twisted Pair Physical Layer Medium Dependent (TP-PMD)" (1990) |
| 33. | | "SynOptics Distributes LAN Management" (LAN Magazine, May 1991) |
| 34. | | "10BaseT Takes Off" (LAN Magazine, May 1991) |
| 35. | | "Tutankhamon Electronics, Inc. Presents: MagicNet" {Date Unknown} |

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| OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.) | | |
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| 36. | | "MagicNet Installation Guide" (January 1, 1991) |
| 37. | | Tut Systems "Technical Overview" {Date Unknown} |
| 38. | | "E/O Networks aims to bring 'fiber to the farm'" (Electronic Engineering Times, March 6, 1995) |
| 39. | | "ATM: Ready For Lift-Off" (Information Week, February 6, 1995) |
| 40. | | "You Haven't Heard The Last Of 'Dirty, Noisy' Copper" (America's NETWORK, January 16, 199?) |
| 41. | | "Bear Sterns New Age Media II" (By Cliff Friedman) {Date Unknown} |
| 42. | | "\$500 Per Seat ATM?" (Business Communications Review, January 1995) |
| 43. | | "Daisy-Chain Ethernet" (BYTE, January, 1995) |
| 44. | | "Cards to Handle Fast ATM on Standard Wire" (Communications Week, Nov. 14, 1994) |
| 45. | | "Prepare Ye The Way: Install Cable Now For Data Transmissions Of Tomorrow" (Communications Week) {Date Unknown} |
| 46. | | "Fast ATM Comes to Copper" (Communications Week, January 23, 1995) |
| 47. | | "ATM to run over copper wire" (Computer World, January 23, 1995) |
| 48. | | "ATM takes to twisted-pair" (Electronic Engineering Times, December 19, 1994) |
| 49. | | "Data Net" (Electronic News, January 23, 1993) |
| 50. | | "Tut Transceivers Target Telcos, ATM" (Electronic News) {Date Unknown} |
| 51. | | "Broadband to Homes" (Interactive Age, December 12, 1994) |
| 52. | | "Tut Claims 155Mbps On Cat 3 Cable" (LAN Times, January 9, 1995) |
| 53. | | "UB signs up Tut for ATM on copper" (MacWeek, 1/30/95) |
| 54. | | "Cheap transceivers vault Tut into ATM, rural I-way markets" (MacWeek, 12/12/94) |

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| FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 5 of 5 | ATTORNEY DOCKET NO. | APPLICATION NO. |
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| Ref. Desig. | Examiner's Initials | Documents |
| 55. | | "UB, Tut, ODS prep high-speed LAN Gear" (Network World, January 23, 1995) |
| 56. | | "ComNet focuses on routing, ATM" (PC Week, January 23, 1995) |
| 57. | | "The Ethernet evolution" (The Network Report, January, 1992) |
| 58. | | "Tut Systems Receives Byte Magazine's Award Of Distinction" (Tut Systems, January 3, 1994) |
| 59. | | "Tut Systems Company Backgrounder" {Date Unknown} |
| 60. | | "Tut Systems Cuts The Cost Of High-Speed Networking For Education Community" (May 24, 1994) |
| 61. | | "Tut Systems Announces Localtalk-To-Ethernet Printer Solution For Silver Streak Product Family" (Tut System News, November 2, 1994) |
| 62. | | "Tut Systems Introduces Industry-Standard PCMCIA Ethernet Card For Portables" (Tut System News, November 2, 1994) |
| 63. | | "Tut Systems Announces parallel Port Ethernet Connector That Makes Networking A Snap For Mobile And Desktop Users" (Tut System, November 2, 1994) |
| 64. | | "Tut Systems Appoints New President To Expand Opportunities For Company's Technology" (Tut System News, November 2, 1994) |
| 65. | | "Tut Systems Announces Partnership With E/O Networks That Will Marry High-Speed Copper To Fiber Telephony Infrastructure" (Tut System, December 12, 1994) |
| 66. | | "UB Networks And Tut Systems Bring The First Implementation Of ATM To Desktop At 155Mbps Over UTP/3" (Tut System, January 23, 1995) |
| 67. | | "Tut Systems Brings ATM To Desktops With Revolutionary Fast Copper Technology Converter And PMD Transceiver" (Tut System, July 11, 1995) |
| 68. | | "EIA Interim Standard Omnibus Specification – Local Area Network Twisted Pair Data Communications Cable – NQ-EIA/IS-43" (EIA, September, 1987) |
| 69. | | Original Style Phone (6 Pictures) {Date Unknown} |
| 70. | | Second Style Phone (3 Pictures) {Date Unknown} |
| 71. | | Third Style Phone (1 Picture) {Date Unknown} |

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